

PATENT SPECIFICATION



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206,630

Complete Left: Sept. 18, 1922.

Complete Accepted: Nov. 15, 1923.

PROVISIONAL SPECIFICATION.

Spring Clip for Sheet Music, and the like.

I, WILLIAM EDWIN PACKHAM, Government Buildings, Westgate Street, Cardiff, Glam., British subject, do hereby declare the nature of this invention to be as follows:—

This music clip is designed for, the security of sheet music, whilst the musician is interpreting same, more especially for out-door performances as a safe-guard against wind and a preventative of mishaps whilst in public functions as shown on the accompanying drawings. The clip consists of a wooden lath (A), with thumb piece (B), attached by upper and lower bands (C) rivetted through centre of bands, this rivet holding spring (D), thumb piece (B) and lath (A) together, the brass strip (E) rivetted to thumb piece (B).

DRAWING.

Fig. 1.—Plan of spring clip.

Fig. 2.—Side view of clip—(closed),

brass strip (E) being kept flat in contact with wooden lath (A) by action of spring (D). Brass strip (E) is made double at (F) to ensure even pressure being maintained throughout its length.

Fig. 3.—Side view of clip (open) brass strip (E) lifted from lath (A) by pressing on end of thumb-piece (B) thereby compressing spring (D); to enable whole of clip to pass over top of music-stand, securely gripping music to stand.

Fig. 4.—Upper and lower brass bands (C); upper band is rivetted to thumb-piece (B), and lower band to lath (A), the whole being held together by a rivet passing through holes in bands (C) and through coils of spring (D) holding spring (D) in position.

Fig. 5.—Showing construction of spring (D).

Dated this 12th day of September, 1922.

WILLIAM EDWIN PACKHAM.

COMPLETE SPECIFICATION.

Spring Clip for Sheet Music, and the like.

I, WILLIAM EDWIN PACKHAM, Government Buildings, Westgate Street, Cardiff, Glam., British subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention refers to spring-actuated clipping devices of the kind comprising a pair of legs each having inwardly projecting lugs, the lugs of the respective parts overlapping one another, a common pivot pin extending through the overlapping parts of said lugs, and wherein a looped wire spring is disposed on said

pivot-pin, its ends pressing against the handle parts of the legs to normally press together the jaws, which consist of the parts of the legs on the side of the pivot pin remote from the handle parts. In devices of this class, the squeezing together of the handle parts causes the jaws to separate.

The present invention provides a device of the foregoing type especially constructed for the purpose of clipping music sheets to a music stand or for an analogous purpose, which according thereto comprises one straight rigid leg which may conveniently be of wood, and one leg consisting of a strip of flexible

and springy metal, carrying at one end a wooden or other rigid block which serves as a handle. The rigid leg and the rigid block of the flexible spring leg each are provided with fixed laterally projecting lugs, and the ends of the lugs of the respective legs overlap one another, a common pivot pin passing through the overlapping parts. The lugs of the block carried by the flexible leg are arranged about centrally of said block. A looped wire spring is disposed on the pivot pin and its respective ends press on to the rigid leg and the rigid part of the flexible leg.

The flexible springy metal leg is curved inwardly somewhat so that when the two legs close together the extreme outer ends thereof first contact with one another. Owing to the rigid part of the flexible springy leg on the side of the pivot pin towards the metal strip, the remaining part of the said flexible leg gradually comes in contact with the rigid leg until practically the whole length of the jaw parts of said legs are in contact with one another.

The accompanying drawings illustrate a preferred construction of device according to my invention, of which Figures 1 to 6 represent the various component parts, and will be separately referred to.

Figure 7 shows the complete device and illustrates how the flexible springy leg makes initial contact with the rigid leg.

Figure 8 is a similar view to Figure 7 showing the device in its normal closed position.

Figure 9 is a view at right-angles to Figure 8.

Figure 10 illustrates how a pair of the devices are applied in use.

The device illustrated comprises a wooden or other rigid strip or lath A (Figure 4) to which is secured a U-shaped bracket C¹ which partly encircles said lath, the limbs of said bracket constituting lugs. Such member constitutes one leg.

The other leg comprises a strip of springy metal E (Figure 2) preferably brass which is secured to a wooden or other rigid block B by rivets or the like H, J as shown in Figure 3. The rivet J passes also through the bracket C¹ and serves to clamp the same in position, said bracket C¹ being precisely similar in construction to the bracket C² secured to the lath A.

The limbs of the two respective brackets C¹ and C² overlap one another, and the two legs are thus pivotally secured together. Holes L are formed through the brackets C¹ and C² to receive the pivot pin G and the rivets H, J, K.

A strengthening piece F (Figure 1) consisting of a strip of metal of similar nature to the strip E, is clamped by the rivets H and J between the said strip E and the block B, holes L being formed through said strip F for said rivets.

A looped wire spring D shaped as shown in Figure 6, is arranged with its coil portion on the pivot pin G. The two legs constituting the ends of said spring press on to the block B and the loop constituting the centre of said spring presses on to the lath A, or *vice versa*, grooves being formed in the surfaces of said latch and block if necessary to retain the spring steadily in position.

Owing to the curved normal shape of the strip E, as shown in Figure 3, the extreme outer end thereof first contacts with the lath A as shown in Figure 7 when the jaws of the device are allowed to close by the action of the spring D. The point where the said strip E leaves contact with the lath A gradually approaches the handle end of the device as the two legs close together, until in the fully closed position the device assumes an attitude as shown in Figure 8. Equal pressure being exerted along the whole path of contact between the two leg.

It has been proposed to construct a book clasp with a bent springy metal leg which normally presses on to a base plate, the said leg being hinged to an upstanding part of said base plate, and no claim is made to such a device.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A spring actuated clipping device of the kind set forth and for the purpose specified, characterized in that one leg is straight and rigid, and the other is flexible and springy, the flexible leg carrying at one end a rigid block constituting a handle, the pivot connection of the legs being substantially in the centre of length of said block, constructed and operating substantially as herein described.

2. A clipping device as claimed in Claim 1, wherein the flexible leg consists of a strip of springy metal which assumes a curved shape in its free position, so that its outer end first contacts with the rigid leg, in the closing together of the legs, substantially as and for the purpose described.

3. In a clipping device as claimed in Claims 1 and 2, the provision of a strengthening piece clamped between the flexible springy leg and the block carried

by it, constructed of material similar to that of the flexible leg itself, substantially as herein described.

5 4. A clipping device as claimed in any of the preceding claims wherein the lugs for the pivot pin are constituted by the limbs of U-shaped brackets which embrace the legs, substantially as herein described.

10 5. The clipping device constructed, arranged and operating substantially as

herein described with reference to the accompanying drawings.

Dated the 12th day of September, 1922.

KINGS PATENT AGENCY LIMITED, 15

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E.C. 4,

Agents for Applicant. 20

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1923.

[This Drawing is a reproduction of the Original on a reduced scale.]

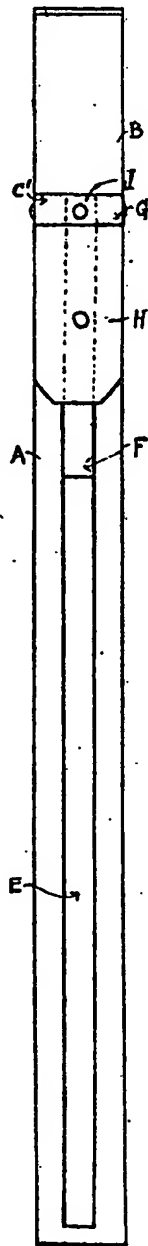


FIG. 1.

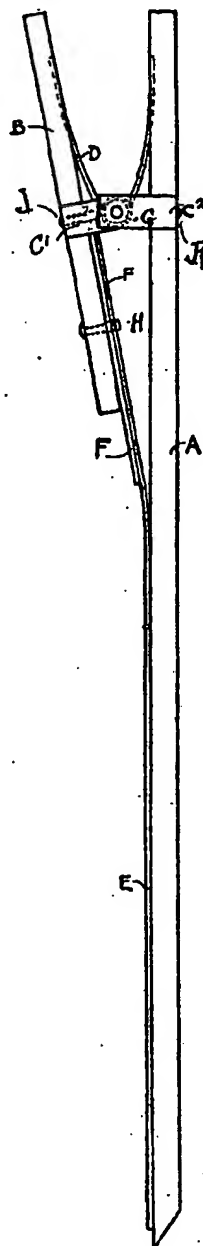


FIG. 2.

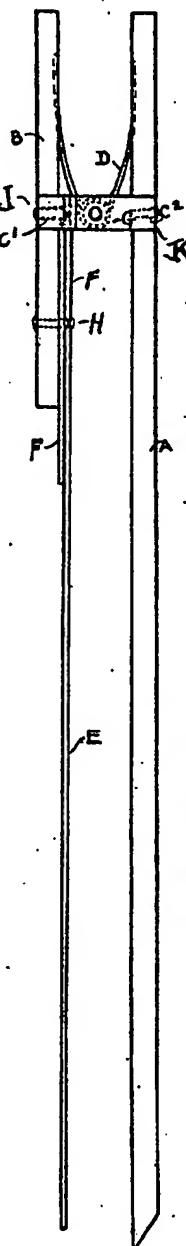


FIG. 3.

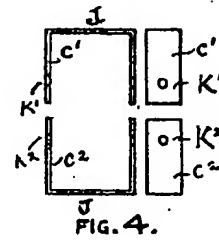


FIG. 4.

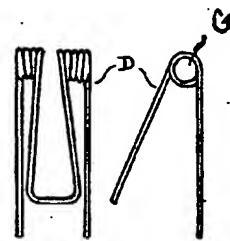


FIG. 5.

[This Drawing is a reproduction of the Original on a reduced scale.]

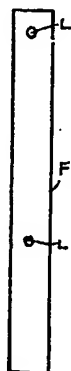


Fig. 1.

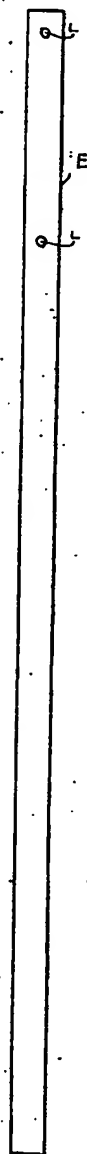


Fig. 2

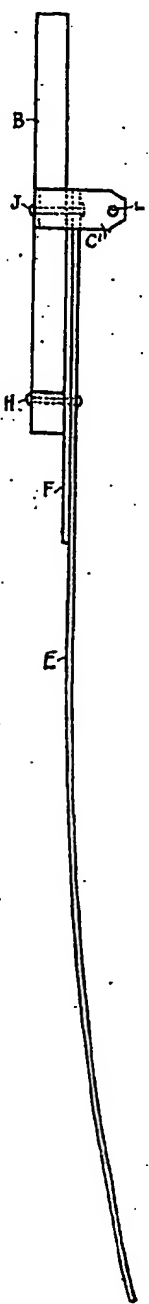


Fig. 3.

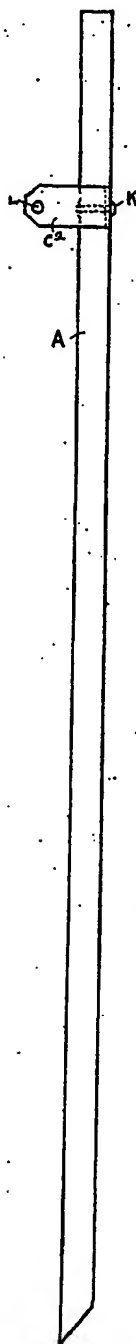


Fig. 4.

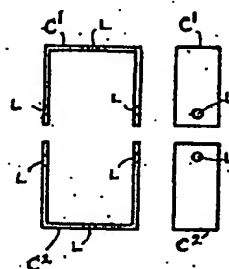


Fig. 5.

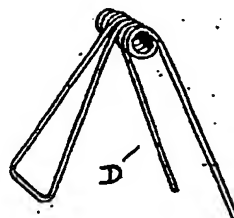


Fig. 6.

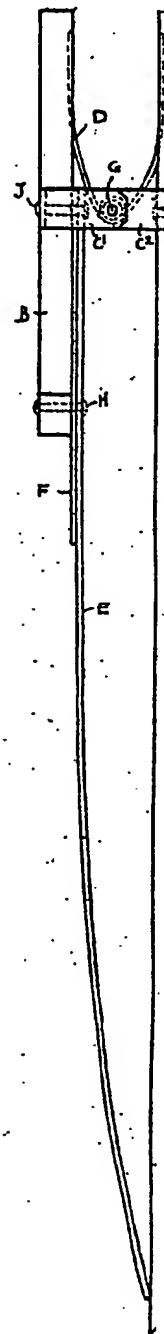


Fig.

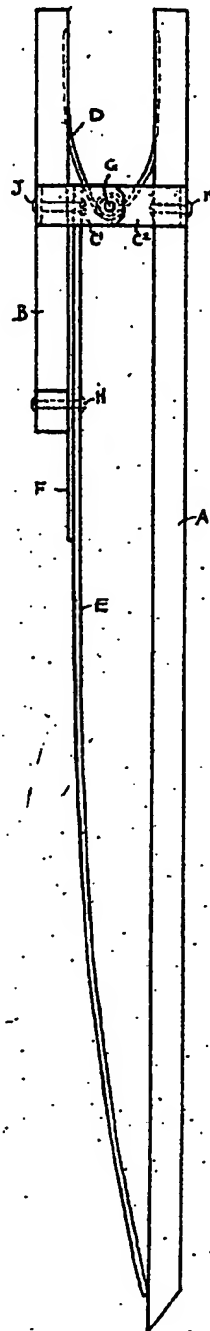


FIG. 7.

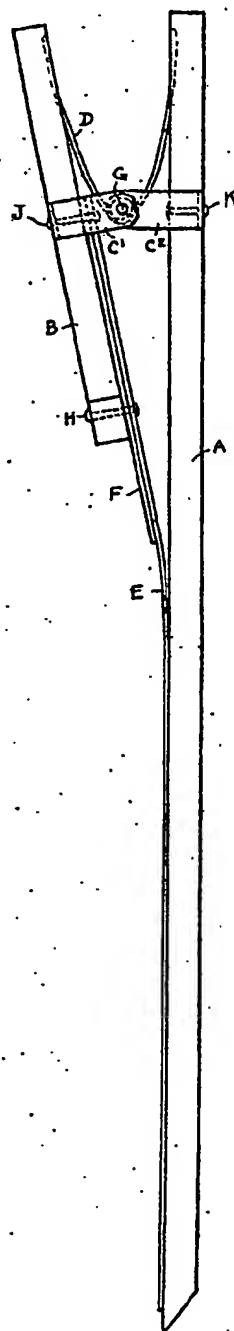


FIG. 8.

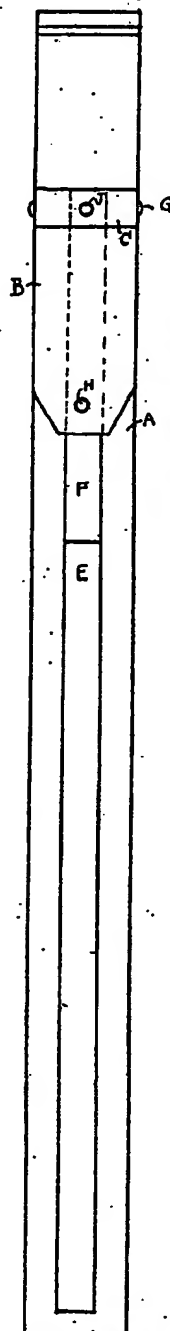


FIG. 9.

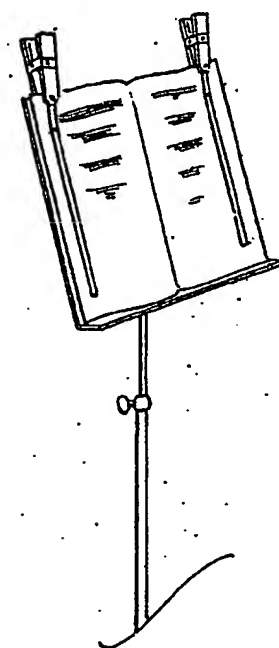


FIG. 10.